

Strategy formation in construction firms

Junnonen, J. M., 1 Feb 1998, In : ENGINEERING, CONSTRUCTION AND ARCHITECTURAL MANAGEMENT. 5, 2, p. 107-114 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Lähtökohtia tie- ja rataverkon peruspalvelutason määrittämiselle

Translated title of the contribution: : Basis for defining the basic service level of road and rail network

Mäntynen, J., Pöllänen, M., Eskelinen, H., Lehtola, I., Perrels, A. & Johanna, K., 1 Dec 2002, Helsinki: Liikenne- ja viestintäministeriö. 134 p. (Liikenne- ja viestintäministeriön julkaisuja; no. 48/2002)

Research output: Book/Report › Commissioned report › Professional

Project feedback as a tool for learning

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Computational design concept analysis: A Nordic comparison of four apartment buildings

Saari, A., 2008, In : STRUCTURAL SURVEY. 26, 1, p. 29-37 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Precision refurbishment of buildings: A façade refurbishment case study

Saari, A., 2008, In : STRUCTURAL SURVEY. 26, 2, p. 108-119 12 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Sensing resolution and measurement range of a passive wireless strain sensor

Yi, X., Wu, T., Lantz, G., Cooper, J., Cho, C., Wang, Y., Tentzeris, M. M. & Leon, R. T., 2011, *Structural Health Monitoring 2011: Condition-Based Maintenance and Intelligent Structures - Proceedings of the 8th International Workshop on Structural Health Monitoring*. Vol. 1. p. 759-766 8 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Krokkfors, K., Ilmonen, M., Kangasoja, J., Lehtonen, H., Mälkki, M., Mäntysalo, R., Norvasuo, M., Nupponen, T. & Puustinen, S., Mar 2011, In : PROCEEDINGS OF THE ICE: URBAN DESIGN AND PLANNING. 164, 1, p. 15-17 3 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Cost optimal and nearly zero (nZEB) energy performance calculations for residential buildings with REHVA definition for nZEB national implementation

Kurnitski, J., Saari, A., Kalamees, T., Vuolle, M., Niemelä, J. & Tark, T., Nov 2011, In : Energy and Buildings. 43, 11, p. 3279-3288 10 p.

Research output: Contribution to journal › Article › Scientific › peer-review

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Mäntynen, J., Kallberg, H., Kalenoja, H., Rauhamäki, H., Pöllänen, M. M., Luukkonen, T. & Karhula, K., 2012, Tampere: Tampereen teknillinen yliopisto. Liikenteen tutkimuskeskus Verne. 216 p.

Research output: Book/Report › Book › Professional

Passive frequency doubling antenna sensor for wireless strain sensing

Yi, X., Cho, C., Wang, Y., Cook, B. S., Cooper, J., Vyas, R., Tentzeris, M. M. & Leon, R. T., 2012, *ASME 2012 Conference on Smart Materials, Adaptive Structures and Intelligent Systems, SMASIS 2012*. Vol. 1. p. 625-632 8 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Structural behaviour of long integral abutment bridges

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Wireless crack sensing using an RFID-based folded patch antenna

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Financial viability of energy-efficiency measures in a new detached house design in Finland

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Research output: Contribution to journal › Article › Scientific › peer-review

Implementation of a direct procedure for critical point computations using preconditioned iterative solvers

Kouhia, R., Tüma, M., Mäkinen, J., Fedoroff, A. & Marjamäki, H., Oct 2012, In : *Computers & Structures*. 108-109, p. 110-117 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Integration of BIM and automation in high-rise building construction

Heikkilä, R., Malaska, M., Törmänen, P. & Keyack, C., 2013, *ISARC 2013 - 30th International Symposium on Automation and Robotics in Construction and Mining, Held in Conjunction with the 23rd World Mining Congress*. p. 1171-1176 6 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Passive wireless antenna sensor for strain and crack sensing - Electromagnetic modeling, simulation, and testing

Yi, X., Cho, C., Cooper, J., Wang, Y., Tentzeris, M. M. & Leon, R. T., Aug 2013, In : *Smart Materials and Structures*. 22, 8, 085009.

Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

BIM based schedule control for precast concrete supply chain

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Crack propagation measurement using a battery-free slotted patch antenna sensor

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Research output: Contribution to journal › Article › Scientific › peer-review

The impact of occupancy patterns, occupant-controlled ventilation and shading on indoor overheating risk in domestic environments

Mavrogianni, A., Davies, M., Taylor, J., Chalabi, Z., Biddulph, P., Oikonomou, E., Das, P. & Jones, B., 1 Jan 2014, In : *Building and Environment*. 78, p. 183-198 16 p.

Research output: Contribution to journal › Article › Scientific › peer-review

The relative importance of input weather data for indoor overheating risk assessment in dwellings

Taylor, J., Davies, M., Mavrogianni, A., Chalabi, Z., Biddulph, P., Oikonomou, E., Das, P. & Jones, B., 1 Jan 2014, In : Building and Environment. 76, p. 81-91 11 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Using probabilistic sampling-based sensitivity analyses for indoor air quality modelling

Das, P., Shrubsole, C., Jones, B., Hamilton, I., Chalabi, Z., Davies, M., Mavrogianni, A. & Taylor, J., 1 Jan 2014, In : Building and Environment. 78, p. 171-182 12 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Commissioning for nearly zero-energy building projects

Kantola, M. & Saari, A., 1 Jul 2014, In : Construction Innovation: Information, Process, Management. 14, 3, p. 370-382 13 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Evaluation of thermo-mechanical behaviour of composite energy piles during heating/cooling operations

Hassani Nezhad Gashti, E., Malaska, M. & Kujala, K., 15 Sep 2014, In : Engineering Structures. 75, p. 363-373 11 p.

Research output: Contribution to journal › Article › Scientific › peer-review

ÄKK Loppuraportti: rakennusten ääniolosuhteiden käyttäjälähtöinen kehittäminen

Hongisto, V. & Kylliäinen, M., 2015, Helsinki: Finnish Institute of Occupational Health. 40 p.

Research output: Book/Report › Commissioned report › Professional

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Research output: Book/Report › Commissioned report › Professional

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

The target reliability of the eurocodes

Poutanen, T., 2015, *Safety, Robustness and Condition Assessment of Structures*. International Association for Bridge and Structural Engineering (IABSE), p. 202-208 7 p. (IABSE Symposium Report).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

WIN-WINTER - Nordic winter road maintenance research program. Preliminary study: Project report

Karhula, K., Pöllänen, M., Mäntynen, J., Rauhamäki, H., Leppäniemi, M. & Luukkonen, T., 2015, Tampere University of Technology. 15 p.

Research output: Book/Report › Commissioned report › Professional

WIN-WINTER - Tie- ja katuverkon talvihoidon tutkimusohjelma. Esiselvitys: Raportti tuloksista

Karhula, K., Pöllänen, M., Mäntynen, J., Rauhamäki, H., Leppäniemi, M. & Luukkonen, T., 2015, Tampereen teknillinen yliopisto. Liikenteen tutkimuskeskus Verne. 15 p.

Research output: Book/Report › Commissioned report › Professional

Measured energy consumption of educational buildings in a Finnish city

Sekki, T., Airaksinen, M. & Saari, A., 1 Jan 2015, In : Energy and Buildings. 87, p. 105-115 11 p.

Research output: Contribution to journal › Article › Scientific › peer-review

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Tauriainen, M. K., Puttonen, J. A. & Saari, A. J., 1 Jan 2015, In : Journal of Information Technology in Construction. 20, p. 51-67 17 p.

Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

Role and nature of systemic innovations in construction and real estate sector

Kähkönen, K., 7 Apr 2015, In : Construction Innovation: Information, Process, Management. 15, 2, p. 130-133 4 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Urban social housing resilience to excess summer heat

Mavrogianni, A., Taylor, J., Davies, M., Thoua, C. & Kolm-Murray, J., 4 May 2015, In : Building Research and Information. 43, 3, p. 316-333 18 p.

Research output: Contribution to journal › Review Article › Scientific › peer-review

Divertor remote handling for DEMO: Concept design and preliminary FMECA studies

Carfora, D., Di Gironimo, G., Järvenpää, J., Huhtala, K., Määttä, T. & Siuko, M., 9 Jul 2015, In : Fusion Engineering and Design. 98-99, p. 1437-1441 5 p.

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Analysis of thermo-active pile structures and their performance under groundwater flow conditions

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Research output: Contribution to journal › Article › Scientific › peer-review

Impact of building usage and occupancy on energy consumption in Finnish daycare and school buildings

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Research output: Contribution to journal › Article › Scientific › peer-review

Acoustics of vanished 19th century concert halls in Helsinki

Niemi, H., Kylliäinen, M., Jäppinen, J. & Lindqvist, M., Oct 2015, *9th International conference on Auditorium Acoustics 2015*. Institute of Acoustics, Vol. 37. p. 182-189 8 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

Auralization of vanished 19th century concert halls in Helsinki

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

Tuulettuvien yläpohjien lämpö- ja kosteustekninen toiminta nykyisessä ja tulevaisuuden ilmastossa

Laukkarinen, A., Oct 2015, Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka. 107 p.

Research output: Book/Report › Master's Thesis › Scientific

Assessing uncertainty in housing stock infiltration rates and associated heat loss: English and UK case studies

Jones, B., Das, P., Chalabi, Z., Davies, M., Hamilton, I., Lowe, R., Mavrogianni, A., Robinson, D. & Taylor, J., 1 Oct 2015, In : Building and Environment. 92, p. 644-656 13 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Koko Julkisivua peittävän lasijulkisivun vaikutus Etelä-Ruotsissa sijaitsevan rakennuksen energiatehokkuuteen

Translated title of the contribution: : The impact of the added façade glazing on the building energy consumption in the southern Sweden

Hilliaho, K., Nordquist, B. & Wallentén, P., 20 Oct 2015, *Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere*. Vinha, J. & Ruuska, T. (eds.). Tampere: Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, p. 509-516 8 p. (Rakennustekniikan laitos. Rakennetekniikka. Seminaarijulkaisu 4; no. 4).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

Lasitetun parvekkeen lämpötilan ja lämpöhäviöiden laskenta

Laukkarinen, A. & Hilliaho, K., 20 Oct 2015, *Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere*. Vinha, J. & Ruuska, T. (eds.). Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, p. 181-186 6 p. (Rakennustekniikan laitos. Rakennetekniikka. Seminaarijulkaisu; no. 4).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

Raudoitteiden korroosionopeuden määrittäminen betonijulkisivussa korkean aikaresoluution säädätin avulla

Köliö, A., Hohti, H., Pakkala, T., Laukkarinen, A., Lahdensivu, J. & Mattila, J., 20 Oct 2015, *Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere..* Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, p. 195-202 8 p. (Rakennustekniikan laitos. Rakennetekniikka. Seminaarijulkaisu; no. 4).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

Uudessa COMBI-hankkeessa tutkitaan energiatehokkaan palvelurakentamisen haasteita ja ratkaisuja

Vinha, J., Hedman, M., Sirén, K., Harsia, P., Pentti, M., Teriö, O., Heljo, J., Laukkarinen, A., Annala, P., Kaasalainen, H., Jokisalo, J. & Pihlajamaa, P., 20 Oct 2015, *Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere..* Vinha, J. & Ruuska, T. (eds.). Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, p. 487-496 10 p. (Rakennustekniikan laitos. Rakennetekniikka. Seminaarijulkaisu; no. 4).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

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Hongisto, V., Kylliäinen, M. & Hyönä, J., 22 Oct 2015, *Rakennusfysiikka 2015*. Tampere: Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, p. 561-566 6 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

Puurunkoisten tuuletettujen yläpohjien kosteustekninen toiminta

Junttila, H., Laukkarinen, A. & Vinha, J., 22 Oct 2015, *Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere..* Vinha, J. & Ruuska, T. (eds.). Tampere: Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, p. 77-82 6 p. (Rakennustekniikan laitos. Rakennetekniikka. Seminaarijulkaisu; no. 4).

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

Airtightness of residential buildings in Finland

Vinha, J., Manelius, E., Korpi, M., Salminen, K., Kurnitski, J., Kiviste, M. & Laukkarinen, A., 1 Nov 2015, In : *Building and Environment*. 93, P2, p. 128-140 13 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Improving the thermal performance of concrete-sandwich envelopes in relation to the moisture behaviour of building structures in boreal conditions

Fedorik, F., Malaska, M., Hannila, R. & Haapala, A., 15 Nov 2015, In : *Energy and Buildings*. 107, p. 226-233 8 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Bus Transportation Accessibility - Does It Impact Housing Values?

Kurvinen, A. & Sorri, J., 2016, *Proceedings of the CIB World Building Congress 2016: Understanding impacts and functioning of different solutions*. Nenonen, S. & Junnonen, J.-M. (eds.). Tampere: Tampere University of Technology. Department of Civil Engineering, Vol. IV. p. 321-331 11 p.
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Effects of added glazing on Balcony indoor temperatures: Field measurements

Hilliaho, K., Köliö, A., Pakkala, T., Lahdensivu, J. & Vinha, J., 2016, In : *Energy and Buildings*. 128, p. 458-472 15 p.
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Practical experiences from several moisture performance assessments

Annala, P. J., Lahdensivu, J., Suonketo, J. & Pentti, M., 2016, *Recent developments in building diagnosis techniques*. Delgado, J. (ed.). Porto, Portugal: Springer Science+Business Media, Vol. 5. p. 1-20 20 p. (Building Pathology and Rehabilitation; vol. 5).
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

Surrogate modeling for initial rotational stiffness of welded tubular joints

Garifullin, M. R., Barabash, A. V., Naumova, E. A., Zhuvak, O. V., Jokinen, T. & Heinisuo, M., 2016, In : *Magazine of Civil Engineering*. 63, 3, p. 53-76 24 p.
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Two models for hydraulic cylinders in flexible multibody simulations

Ylinen, A., Mäkinen, J. & Kouhia, R., 2016, *Computational Methods for Solids and Fluids: Multiscale Analysis, Probability Aspects and Model Reduction*. Springer, p. 463-493 31 p. (Computational Methods in Applied Sciences; vol. 41).
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Validation of the method to evaluate the corrosion propagation stage by hygrothermal simulation

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Pre-use phase LCA of a multi-story residential building: Can greenhouse gas emissions be used as a more general environmental performance indicator?

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Research output: Contribution to journal › Article › Scientific › peer-review

Tuulettuvat julkisivut 2016, by 64

Annala, P., Lahdensivu, J., Lemberg, A.-M., Pikkuvirta, J. & Pakkala, T., Apr 2016, Helsinki: Suomen Betoniyhdistys r.y. 121 p.
Research output: Book/Report › Book › Professional

Mapping indoor overheating and air pollution risk modification across Great Britain: A modelling study

Taylor, J., Davies, M., Mavrogianni, A., Shrubsole, C., Hamilton, I., Das, P., Jones, B., Oikonomou, E. & Biddulph, P., 1 Apr 2016, In : *Building and Environment*. 99, p. 1-12 12 p.
Research output: Contribution to journal › Article › Scientific › peer-review

The effect of climate change on the amount of wind driven rain on concrete facades

Pakkala, T., Lemberg, A.-M. & Lahdensivu, J., May 2016, *Proceedings of the CIB World Building Congress 2016: Vol 2 : Environmental opportunities and challenges, Constructing commitment and acknowledging human experiences*. Prins, M., Wamelink, H., Giddings, B., Ku, K. & Feenstra, M. (eds.). Tampere: Tampere University of Technology. Department of Civil Engineering, Vol. 2. p. 153-165 13 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Effects of strain rate and confining pressure on the compressive behavior of Kuru granite

Hokka, M., Black, J., Tklich, D., Fourmeau, M., Kane, A., Hoang, N. H., Li, C. C., Chen, W. W. & Kuokkala, V-T., 1 May 2016, In : *International Journal of Impact Engineering*. 91, p. 183-193 11 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Energy saving in working hydraulics of long booms in heavy working vehicles

Immonen, P., Ponomarev, P., Åman, R., Ahola, V., Uusi-Heikkilä, J., Laurila, L., Handroos, H., Niemelä, M., Pyrhönen, J. & Huhtala, K., 1 May 2016, In : *Automation in Construction*. 65, p. 125-132 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

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Lahdensivu, J., Annila, P. & Pikkuvirta, J., Jun 2016, Helsinki: Suomen Betoniyhdistys r.y. 145 p. (BY. Tekniset ohjeet; no. 57)

Research output: Book/Report › Book › Professional

The effect of climate change on freeze-thaw durability of concrete structures in Finland

Pakkala, T., Lemberg, A-M. & Lahdensivu, J., Jun 2016, p. 53. 1 p.

Research output: Other conference contribution › Paper, poster or abstract › Scientific

Energy saving and indoor climate effects of an added glazed facade to a brick wall building: Case study

Hilliaho, K., Nordquist, B., Wallentèn, P., Hamid, A. A. & Lahdensivu, J., 1 Sep 2016, In : *Journal of Building Engineering*. 7, p. 246-262 17 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Stress relaxation in tempered glass caused by heat soak testing

Schneider, J., Hilcken, J., Aronen, A., Karvinen, R., Olesen, J. F. & Nielsen, J., 1 Sep 2016, In : *Engineering Structures*. 122, p. 42-49 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Solar Panel Breakage During Heavy Rain Caused by Thermal Stress

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Consideration of energy consumption, energy costs, and space occupancy in Finnish daycare centres and school buildings

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Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Contribution to journal › Editorial › Scientific

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Research output: Contribution to journal › Article › Scientific › peer-review

A generic method to optimize a redundant serial robotic manipulator's structure

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Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

People's current mobility costs and willingness to pay for Mobility as a Service offerings

Liljamo, T., Liimatainen, H., Pöllänen, M. & Utriainen, R., 1 Jun 2020, In : Transportation Research Part A: Policy and Practice. 136, p. 99-119 21 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Uncertainty in the early phase of a municipal building refurbishment project-A case study in Finland

Uotila, U., Saari, A. & Junnonen, J. M., 1 Aug 2020, In : Buildings. 10, 8, 18 p., 137.

Research output: Contribution to journal › Article › Scientific › peer-review